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Color Measurement Using Photo Editing or Image Analysis Software

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Color Measurement Using Photo Editing or Image Analysis Software

Color measurement is taken via photospectrometer. This is almost exclusively performed on surrogate plaques or plaques cut from a test component as component geometry does not usually allow use of this instrument. This invention allows the color of actual components, regardless of size or geometry, to be tested and measured using a digital image analysis software (e.g. Image J) or photo editing software (e.g. Adobe Photoshop or Affinity Photo).

To use this invention one needs to acquire an image of the work piece or pieces. This could be done with a flatbed scanner or a digital camera. The image should include some amount of bright white paper (typically the type used in photocopiers or laser printers). The inclusion of the bright white paper helps the scanner or camera to perform the automatic white balance. It is best if the light source is perpendicular to the work piece or area of the work piece to be measured.

Once an acceptable image is obtained it is open in the digital image analysis or photo editing software. Check the settings of the software to ensure that the sample tool will use the desired color system such as L*a*b* or Chroma and Hue. Use the sampling tool to obtain the appropriate color dimensions. Record the results. Repeat in other areas if desired.

Disclosed Anonymously